CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/NVP/CSR-10/1621/CEMENT/2016-17 Date: 06.10.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. Ninganagowda V. Patil,** #57/7, Sri Krishna Nilaya, 2nd Main, Ganganagara, R.T. Nagara (P), Bangalore – 32.
*NAME OF THE WORK	:	Improvements to Roads & Drains near Gangamma Temple area Amruthahalli in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/KSD/PR/253/2016-17 Dated: 05.10.2016
SAMPLE ID	:	Cement – Sample 1
SAMPLE RECEIVED ON	:	05.10.2016
PERIOD OF TESTING	:	05.10.2016 to 06.10.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

A.E.E.

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Job No.: CTCE/BBMP/W.No.07/NVP/CSR-10/1621/SAND-Gradation/2016-17 : 06.10.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ninganagowda V. Patil,**
#57/7, Sri Krishna Nilaya, 2nd Main, Ganganagara, R.T. Nagara (P), Bangalore – 32.

*** Name of Work** : Improvements to Roads & Drains near Gangamma Temple area Amruthahalli in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KSD/PR/253/2016-17 Dated: 05.10.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates – Sample 1

Sample Received on : 05.10.2016

Date of Testing : 06.10.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.70	90-100	90-100	90-100	95-100
2.36	78.50	60-95	75-100	85-100	95-100
1.18	59.20	30-70	55-90	75-100	90-100
600 Micron	29.40	15-34	35-59	60-79	80-100
300 Micron	14.20	5-20	8-30	12-40	15-50
150 Micron	5.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.07/NVP/CSR-10/1621/AGG/GR/2016-17 : 06.10.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ninganagowda V. Patil,**
#57/7, Sri Krishna Nilaya, 2nd Main, Ganganagara, R.T. Nagara (P), Bangalore – 32.

*** Name of Work** : Improvements to Roads & Drains near Gangamma Temple area Amruthahalli in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KSD/PR/253/2016-17 Dated: 05.10.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) – Sample 1

Sample Received on : 05.10.2016

Date of Testing : 06.10.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.54	95-100	85-100
20	37.02	30-70	0-20
10	16.96	10-35	0-5
4.75	4.56	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.07/NVP/STEEL/2016-17 13.10.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Ninganagowda V. Patil,** #57/7, Sri Krishna Nilaya, 2nd Main, Ganganagara, R.T. Nagara (P), Bangalore – 32.
Name of the Work	:	Improvements to Roads & Drains near Gangamma Temple area Amruthahalli in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/KSD/PR/253/2016-17 Dated: 05.10.2016
Date of Test	:	13.10.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.15	O.K	O.K

A & W.7 A.E.E.

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Job No.: CTCE/BBMP/W.No.07/NVP/STEEL/2016-17 13.10.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Ninganagowda V. Patil,** #57/7, Sri Krishna Nilaya, 2nd Main, Ganganagara, R.T. Nagara (P), Bangalore – 32.
Name of the Work	:	Improvements to Roads & Drains near Gangamma Temple area Amruthahalli in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/KSD/PR/253/2016-17 Dated: 05.10.2016
Date of Test	:	13.10.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	557	13.35	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.07/NVP/CSR-10/1621/CUBE/2016-17 10.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. Ninganagowda V. Patil,**
#57/7, Sri Krishna Nilaya, 2nd Main, Ganganagara, R.T. Nagara (P), Bangalore – 32.

* **Name of the work** : Improvements to Roads & Drains near Gangamma Temple area Amruthahalli in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/KSD/PR/253/2016-17 Dated: 05.10.2016

* **Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 10.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.10.2016	10.11.2016	8.198	485.5	21.58
2	13.10.2016	10.11.2016	8.265	512.3	22.77
3	13.10.2016	10.11.2016	8.390	526.8	23.41

A.E.E

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Job No.: CTCE/BBMP/W.No.07/NVP/CSR-10/1621/CUBE/2016-17 10.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. Ninganagowda V. Patil,**
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* **Name of the work** : Improvements to Roads & Drains near Gangamma Temple area Amruthahalli in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/KSD/PR/253/2016-17 Dated: 05.10.2016

* **Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 10.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.10.2016	10.11.2016	8.125	492.6	21.89
2	13.10.2016	10.11.2016	8.290	510.3	22.68
3	13.10.2016	10.11.2016	8.332	529.8	23.55

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Job No.: CTCE/BBMP/W.No.07/NVP/CSR-10/1621/CUBE/2016-17 14.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. Ninganagowda V. Patil,**
#57/7, Sri Krishna Nilaya, 2nd Main, Ganganagara, R.T. Nagara (P), Bangalore – 32.

* **Name of the work** : Improvements to Roads & Drains near Gangamma Temple area Amruthahalli in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/KSD/PR/253/2016-17 Dated: 05.10.2016

* **Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 14.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2016	14.11.2016	8.116	485.5	21.58
2	17.10.2016	14.11.2016	8.280	490.5	21.80
3	17.10.2016	14.11.2016	8.370	510.2	22.68

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* **Agency** : **Mr. Ninganagowda V. Patil,**
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* **Reference** : AEE/KSD/PR/253/2016-17 Dated: 05.10.2016

* **Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 14.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2016	14.11.2016	8.127	478.3	21.26
2	17.10.2016	14.11.2016	8.225	493.6	21.94
3	17.10.2016	14.11.2016	8.315	510.2	22.68

A.E.E

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Job No.: CTCE/BBMP/W.No.07/NVP/CSR-10/1621/CUBE/2016-17 21.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* **Agency** : **Mr. Ninganagowda V. Patil,**
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* **Name of the work** : Improvements to Roads & Drains near Gangamma Temple area Amruthahalli in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/KSD/PR/253/2016-17 Dated: 05.10.2016

* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 21.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.10.2016	21.11.2016	8.103	475.9	21.15
2	24.10.2016	21.11.2016	8.235	489.3	21.75
3	24.10.2016	21.11.2016	8.310	506.3	22.50

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Job No.: CTCE/BBMP/W.No.07/NVP/CSR-10/1621/CUBE/2016-17 21.11.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. Ninganagowda V. Patil,**
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* **Reference** : AEE/KSD/PR/253/2016-17 Dated: 05.10.2016

* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 21.11.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.10.2016	21.11.2016	8.260	502.3	22.32
2	24.10.2016	21.11.2016	8.393	517.4	23.00
3	24.10.2016	21.11.2016	8.405	529.6	23.54

A.E.E.

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